

## PATENT ABSTRACTS OF JAPAN

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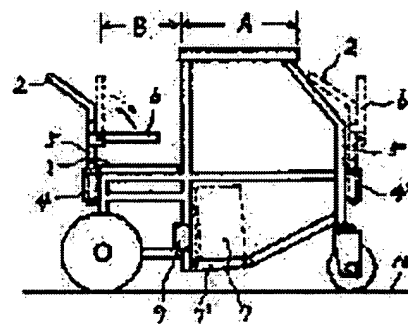
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(54) HAND-PUSH CARRYING DEVICE FOR NURSING OF WALK ASSISTING CAR  
ATTACHABLY AND DETACHABLY PROVIDED WITH SEAT ON THE BACK

(57)Abstract:

PROBLEM TO BE SOLVED: To safely carry a patient as he is seated on a walk assisting car by hand push for nursing without damaging functions of the car which is attachably and detachably provided with a seat on the back.

SOLUTION: For safely carrying a patient as he is seated on a walk assisting car by hand push without damaging functions of the car, which is attachably and detachably provided with a seat on the back, in an attachable and detachable structure to be containable and attachable, the device is provided with a hand-push bar 2, arm rest parts 6, a seat back part 5, etc., and a foot rest device comprising a foot rest plate 7 and a feed support belt for supporting both feet of the patient at some height in carrying him, and a containing case 9.



## LEGAL STATUS

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**CLAIMS**


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## [Claim(s)]

[Claim 1] In a hand-pushed migration means by which the walk auxiliary vehicle which it has for a seat back, enabling free attachment and detachment can be under use, a care worker can perform a care worker-ed [ having sat down on the seat ] in a predetermined location, and this walk auxiliary vehicle can transport to insurance Without spoiling the function of this walk auxiliary vehicle original whose attachment and detachment of a seat are enabled back, are the structure which can be detached and attached and receipt anchoring is enabled. The hand-pushed equipment by which a configuration setup is carried out, without giving a care worker-ed insecurity so that migration actuation can be performed safely and easily, every guide peg for supporting both a care worker's-ed guide pegs in height a little -- equipment -- since -- the care manual push concrete supply system of the walk auxiliary vehicle with which the back characterized by changing is equipped for a seat, enabling free attachment and detachment.

[Claim 2] The care manual push concrete supply system of the walk auxiliary vehicle with which the back according to claim 1 characterized by preparing the hand-pushed bar of a U character configuration over the right-and-left inter-frame of this walk auxiliary vehicle in hand-pushed equipment is equipped for a seat, enabling free attachment and detachment.

[Claim 3] The care manual push concrete supply system of the walk auxiliary vehicle with which the back according to claim 1 characterized by preparing the hand-pushed bar of the shape of a rod divided into the right-and-left side of this walk auxiliary vehicle in hand-pushed equipment is equipped for a seat, enabling free attachment and detachment.

[Claim 4] Claim 1 characterized by preparing the anchoring section made possible free [ attachment and detachment of a hand-pushed bar ] in the posterior part right-and-left side of the walk auxiliary section of this walk auxiliary vehicle or 2, the care manual push concrete supply system of the walk auxiliary vehicle which it has for a seat behind three publications, enabling free attachment and detachment.

[Claim 5] Claim 1 characterized by preparing the anchoring section made possible free [ attachment and detachment of a hand-pushed bar ] in the posterior part right-and-left side of the seat section of this walk auxiliary vehicle or 2, the care manual push concrete supply system of the walk auxiliary vehicle which it has for a seat behind three publications, enabling free attachment and detachment.

[Claim 6] Claim 1 characterized by preparing the back board section for care workers-ed in a hand-pushed bar or 2, the care manual push concrete supply system of the walk auxiliary vehicle which it has for a seat behind three publications, enabling free attachment and detachment.

[Claim 7] The care manual push concrete supply system of the walk auxiliary vehicle with which the back board section of claim 6 equips this hand-pushed bar for a seat in the back according to claim 6 characterized by being the structure which can be detached and attached, enabling free attachment and detachment.

[Claim 8] Claim 1 characterized by preparing the armrest section for care workers-ed in right and left of the hand-pushed bar used for the anchoring section of claim 5 or 2, the care manual push concrete supply system of the walk auxiliary vehicle which it has for a seat behind three publications, enabling

free attachment and detachment.

[Claim 9] The care manual push concrete supply system of the walk auxiliary vehicle with which the back according to claim 8 where the armrest section of claim 8 is characterized by preparing in the structure which can be folded is equipped for a seat, enabling free attachment and detachment.

[Claim 10] The care manual push concrete supply system of the walk auxiliary vehicle with which the back according to claim 1 characterized by preparing in the lower left right-hand side of the posterior part approach of the walk auxiliary section in the predetermined direction with the structure which can be opened and closed, respectively is equipped for a seat every [ in equipment ] guide peg every guide peg, without carrying out the division-into-equal-parts rate of the plate to right and left, and barring the function of this walk auxiliary vehicle, enabling free attachment and detachment.

[Claim 11] The care manual push concrete supply system of the walk auxiliary vehicle with which the back according to claim 1 characterized by forming the guide-peg support band in equipment between the lower left right of the posterior part approach of the walk auxiliary section every guide peg with the structure which can be detached and attached, without barring the function of this walk auxiliary vehicle is equipped for a seat, enabling free attachment and detachment.

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## DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Industrial Application] This invention is the walk auxiliary vehicle which it has for a seat back, enabling free attachment and detachment, and relates this walk auxiliary vehicle that has a user in a taking-a-seat condition by the abasia to the care manual push concrete supply system of the walk auxiliary vehicle which equips with hand-pushed migration the back which can be performed for a seat safely [ a care worker ] and easily, enabling free attachment and detachment.

[0002]

[Description of the Prior Art] In a walk auxiliary vehicle, "the walk auxiliary vehicle (utility model registration No. 3015897) which can carry out a seat back, enabling free attachment and detachment" With having constituted the seat section which enables [ at a part for a front flank ] the optional attachment and detachment of a seat of the walk auxiliary section a part for a back flank From there being an advantage for which it is not necessary to change the sense of the body into, and a user equips with the seat for a break free [ optional attachment and detachment ], and can use it by this walk auxiliary in the car one without spoiling the function of a walk auxiliary vehicle For the elderly people in whom the body declined, of course, or the walk weak by the failure, the object for rehabilitation also has borrowing [ little ] hands, such as a helper, and practical use is presented with it widely as the safe and effective walking training which feels easy freely and which can be used regardless of sex age, and a walk auxiliary means.

[0003] However, although this walk auxiliary vehicle is equipped with the seat for a break at the time of getting tired with the structure which can be detached and attached Since walking training and walk assistance are originally made into a key objective, the necessary function as a care vehicle for migration is not added. for example, the case where condition is broken down, or it becomes with difficulty in walking, and it is impossible to move by the use process of this walk auxiliary vehicle with a taking-a-seat posture -- this walk auxiliary vehicle -- \*\* -- there was a trouble of being difficult in prompt correspondence of the care treatment of performing insurance migration in a predetermined location etc.

[0004]

[Problem(s) to be Solved by the Invention] The trouble which it is going to solve is a point of being a posture as it is and this walk auxiliary vehicle being unable to make insurance transport the care worker-ed who is in a taking-a-seat condition by this walk auxiliary in the car one to a predetermined location in the "walk [ which can carry out a seat back, enabling free attachment and detachment ] auxiliary vehicle" used.

[0005]

[Means for Solving the Problem] This invention is set on "the walk auxiliary vehicle which can carry out a seat back, enabling free attachment and detachment". This walk auxiliary vehicle the care worker-ed of a taking-a-seat condition Insurance and in order to make migration possible easily, Without spoiling the function of walk auxiliary vehicle original whose attachment and detachment of a seat are enabled back With the structure which can be detached and attached, and the hand-pushed equipment by which

enables receipt anchoring, and a configuration setup is carried out, without a care worker giving a care worker-ed insecurity so that easy safe and migration actuation can be performed, and the insurance at the time of transporting sake, It is characterized [ main ] by having equipment every guide peg for supporting both a care worker's-ed guide pegs in height a little.

[0006] The hand-pushed bar in hand-pushed equipment, without barring the function as this walk auxiliary vehicle By enabling it to always carry on a walk auxiliary vehicle, preparing the back board section and the armrest section for care workers-ed in this hand-pushed bar, and forming the guide-peg support band for stabilizing a care worker's-ed guide peg on a plate every guide peg to equipment every guide peg with the structure which can be detached and attached The function as a care vehicle was added and the purpose of enabling hand-pushed migration for the care worker-ed of a taking-a-seat condition safely and promptly with this walk auxiliary vehicle with a posture as it is in a predetermined location was realized.

[0007]

[Example] Drawing 1 is the side elevation of the example of "the walk [ which it has for a seat back, enabling free attachment and detachment ] auxiliary vehicle (utility model registration No. 3015897)" which does not use this invention equipment, and drawing 2 -8 are each explanatory view showing the example of this invention equipment. In addition, since the subject of this invention is in the mounting approaches, such as a care manual push concrete supply system in "the walk auxiliary vehicle which it has for a seat back, enabling free attachment and detachment", explanation of the functional structure system of "the walk auxiliary vehicle which it has for a seat back, enabling free attachment and detachment" is omitted. Based on a drawing, the example of this invention is explained to a detail below.

[0008] In drawing 2 -8, the hand-pushed bar 2 in hand-pushed equipment Cylindrical the U character configuration over the right-and-left frame pipe of the walk auxiliary vehicle (a walk auxiliary vehicle is called below) which it has for a seat back, enabling free attachment and detachment -- or the right-and-left side, it was alike, respectively and dissociated -- Or a die-length part is constituted a little insertion wearing in the anchoring section 4 prepared in the posterior part right-and-left frame pipe part of the seat section B of is enabled. respectively -- on the other hand, the below-mentioned anchoring section 3 which sits on an edge side with the walk auxiliary section A of a walk auxiliary vehicle, and is prepared in the right-and-left frame pipe part of \*\*\*\* of Section B -- It has a predetermined configuration, respectively and the care worker-ed consists of rigid pipe material so that hand-pushed migration can carry out this walk auxiliary vehicle of a taking-a-seat condition to insurance afterwards. In addition, in the hand-pushed bar 2 with which the anchoring section 3 is equipped, arm 2' which the below-mentioned back also hangs down and can attach the section 5 between the right and left is really constituted by each at the right-and-left side of this hand-pushed bar 2, and the below-mentioned armrest section 6 is further formed in right and left of the hand-pushed bar 2 with which the anchoring section 4 is equipped.

[0009] the anchoring section 3 which carries out insertion wearing of the edge of the hand-pushed bar 2 -- the seat plate 1 of the seat section B, and abbreviation -- it is near [ same ] a height location, and the locking device is carried out, without sitting with the walk auxiliary section A and barring the function of this walk auxiliary vehicle on the outside of the right-and-left frame pipe of a boundary with Section B. and although the some die length part by the side of one edge of the hand-pushed bar 2 be make into the structure which can be insert and it be make there be no trouble in the hand-pushed migration function in this walk auxiliary vehicle, in the case of the hand-pushed rod-like bar 2, it be that a configuration configuration be carry out so that this anchoring section 3 may cooperate with the insertion end shape form by the object for rotation prevention in the hand-pushed rod-like bar 2, and the predetermined function be maintain. In addition, at the time of the use as a walk auxiliary vehicle, without spoil the function of a walk auxiliary vehicle in terms and conditions, these anchoring section 3 do not have a possibility of do harm around a travelling direction, either, enable insertion wearing of the hand-pushed bar 2 of the shape of this U character configuration or a rod with the reverse sense at each, and be make as [ carry out / joint use ] as receipt anchoring section 3' for always carry these hand-

pushed bar 2.

[0010] Fixed wearing of the anchoring section 4 is carried out without barring the function of this walk auxiliary vehicle to the backside [ the right-and-left frame pipe behind the seat plate 1 of the seat section B ]. and although the some die length part by the side of one edge of the hand-pushed bar 2 be make into the structure which can be insert and it be make there be no trouble in the hand-pushed migration function in this walk auxiliary vehicle, in the case of the hand-pushed rod-like bar 2, it be that a configuration configuration be carry out so that this anchoring section 4 may cooperate with the insertion end shape form by the object for rotation prevention in the hand-pushed rod-like bar 2, and the predetermined function be maintain.

[0011] In addition, receipt anchoring section 4' for always carrying the hand-pushed bar 2 used for this anchoring section 4 on a walk auxiliary vehicle In the condition that there is also no possibility of doing harm around a travelling direction without carrying out fixed wearing at a before [ the right-and-left frame pipe of the anterior part of the walk auxiliary section A of this walk auxiliary vehicle ] side, and spoiling the function of a walk auxiliary vehicle in terms and conditions at the time of the use as a walk auxiliary vehicle Insertion wearing of each is attained with the reverse sense for the hand-pushed bar 2 of the shape of this U character configuration or a rod.

[0012] The back board section 5 for being stabilized and supporting the posture of the care worker-ed of a taking-a-seat condition Between arm 2' prepared in right and left of the hand-pushed bar 2 used for the anchoring section 3 In the case of the hand-pushed bar 2 used for the anchoring section 4, it constitutes from a band which has predetermined width of face with blanket-like [ which is between the right and left and connects a predetermined location, respectively ], and it is made as [ support / the care worker-ed of the taking-a-seat condition in care migration terms and conditions / it is software feeling, and it is stabilized and ]. In addition, this back board section 5 is constituted free [ attachment and detachment ], without dropping out into the arm 2' part of the hand-pushed bar 2, and the predetermined anchoring part during right and left.

[0013] the armrest section 6 be really constitute from folded structure by the predetermined location of a right and left of the hand-pushed bar 2 of the shape of the U character configuration use for the anchoring section 4, or a rod, respectively, and be make as [ hold / with support the elbow part of the care worker-ed of the taking a seat condition in terms and conditions at the time of care migration / the stable posture ].

[0014] It sets to equipment every guide peg. A plate 7 right and left every guide peg with the structure of a division-into-equal-parts rate which can be opened and closed In order to enable it to support both this care worker's-ed guide pegs in height a little to utilization time, it sits with the walk auxiliary section A. In the right-and-left frame pipe of a boundary with Section B Anchoring pipe 7' of die length is made into a medial axis a little which really consists of predetermined include angles in the side direction before walk auxiliary section A, respectively from the frame pipe lower tip of a floor line 10 to predetermined height. Although storing maintenance is made to turn on the right-and-left side of the walk auxiliary section A in the state of erection, respectively, without attaching free [ rotation ], without dropping out one edge side, and barring the function of a walk auxiliary vehicle In the case of care migration, it is made only in the direction of the walk auxiliary section A inside that rotation is free in the range of 90 abbreviation so that both the guide pegs of the care worker-ed of a taking-a-seat condition can be put. In addition, the tip of anchoring pipe 7' on either side raises rigidity by connecting with a before [ the walk auxiliary section A ] side frame pipe part, respectively, and is made as [ be / in everything conditions / at the time of this care migration / convenient ].

[0015] In the guide-peg support section, the guide-peg support band 8 is made into the structure which can be gone in and out from the inside of the receipt case 9 which is beltlike, constitutes, fixes to the interior and contains one edge side where it has blanket-like some width of face, it attaches in another outside edge, and hook section 8' of business is prepared. It has some contamination force. The guide-peg support band 8 the receipt case 9 tubed with receipt and drawer free structure In the predetermined location of one side of the frame pipe which prepares anchoring pipe 7' which equips a plate 7 every above-mentioned guide peg a walk -- assistance -- a vehicle -- \*\*\*\*\* -- a function -- barring -- without



-- immobilization -- wearing -- carrying out -- having pulled out -- a guide peg -- a support -- a band -- eight -- a hook -- the section -- eight -- ' -- another side -- a side -- a guide peg -- every -- a plate -- seven -- equipping -- anchoring -- a pipe -- seven -- ' -- preparing -- a frame - a pipe -- a part -- it can hang -- making . the guide-peg support band 8 pulled out from the receipt case 9 in that case -- the spacing dimension of a right-and-left frame pipe, and abbreviation -- it has the same die length, the flare of strength is constituted a little between these right-and-left frame pipes, and it is made as [ support / every guide peg of a care worker-ed / the membrum-inferius part on a plate 7 ].

[0016] In the care manual push concrete supply system of the walk auxiliary vehicle which the reason this invention must be limited to the above-mentioned example does not have, for example, is back equipped with a seat free [ attachment and detachment ] Without spoiling the function as a walk auxiliary vehicle, the hand-pushed equipment of the hand-pushed bar 2 grade which is the structure which can be detached and attached and enables receipt anchoring on this walk auxiliary vehicle, and every guide peg, every guide peg of plate 7 grade, even if the necessary configuration in equipment is the thing of other configuration configurations It cannot be overemphasized that the functional configuration which enables care hand-pushed migration of a care worker-ed safely should just be a thing possessing the monograph affair in the above-mentioned example.

[0017]

[Effect of the Invention] The effectiveness indicated below about the care manual push concrete supply system of the walk auxiliary vehicle which it has for a seat behind this invention explained above, enabling free attachment and detachment is done so.

[0018] In the care manual push concrete supply system of the walk auxiliary vehicle which it has for a seat behind claim 1, enabling free attachment and detachment Having formed the hand-pushed equipment which can perform hand-pushed migration, and the care manual push concrete supply system which consists of equipment every guide peg in the walk auxiliary vehicle, without spoiling a walk miscellaneous function There is a big advantage [ say / that suitable correspondence treatment to which a care worker does care migration also with this walk auxiliary vehicle in a predetermined location at insurance, and risk can avoid immediately a care worker-ed / breaking down condition, and it becoming impossible to move this walk auxiliary vehicle in a use process, and having sat down on the seat / can be performed easily ]. The advantage that a user's anxiety is also canceled and the rehabilitation effectiveness is promoted by this is also large.

[0019] Having prepared the hand-pushed bar of a U character configuration in the hand-pushed equipment of claim 2 has operability good for \*\*\*\* actuation.

[0020] Having prepared the hand-pushed bar of the shape of a rod divided into right and left in the hand-pushed equipment of claim 3 has the convenience that this walk auxiliary vehicle can be used, equipping this hand-pushed bar in addition to operability being good for \*\*\*\* actuation.

[0021] The anchoring section prepared in posterior part right and left of the walk auxiliary section which can carry out the hand-pushed bar of claim 4, enabling free attachment and detachment sits by wearing of this hand-pushed bar, constitutes a frame in right and left of the section, is supporting right and left of the care worker-ed in the case of \*\*\*\*, and is greatly useful to stable maintenance of a taking-a-seat posture.

[0022] The anchoring section prepared in posterior part right and left of the seat section which can carry out the hand-pushed bar of claim 5, enabling free attachment and detachment is excellent in operability with a hand-pushed bar in the case of \*\*\*\*.

[0023] Having prepared the back board section of claim 6 in the hand-pushed bar is supporting the back of the care worker-ed in the case of care migration, and it is greatly useful to taking-a-seat posture stability maintenance.

[0024] It is greatly useful in the case of receipt of a hand-pushed bar, and a cellular phone that the back board section of claim 7 considered as the structure which can be detached and attached at the hand-pushed bar.

[0025] It is greatly useful to posture stability maintenance of the care worker-ed in the case of care migration to have prepared the armrest section of right and left for the care workers-ed of claim 8 in the

hand-pushed bar used for the anchoring section of claim 5.

[0026] It is greatly useful in the case of receipt of this hand-pushed bar, and a cellular phone to have made the armrest section of claim 9 into folded structure.

[0027] That the division-into-equal-parts rate of the plate was carried out, and it was formed in the predetermined location on either side every [ in equipment ] guide peg every guide peg of claim 10 with the structure which can be opened and closed makes it possible to support a care worker's-ed foot immediately, it secures the insurance in care migration, and is greatly useful to this improvement in mobility.

[0028] That the guide-peg support band in equipment was formed in the predetermined location every guide peg of claim 11 with the structure which can be detached and attached enables stable maintenance of a foot with supporting a care worker's-ed membrum-inferius part, it secures the insurance in the case of care migration, and is greatly useful to this improvement in mobility.

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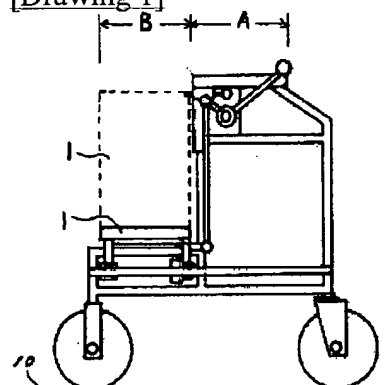
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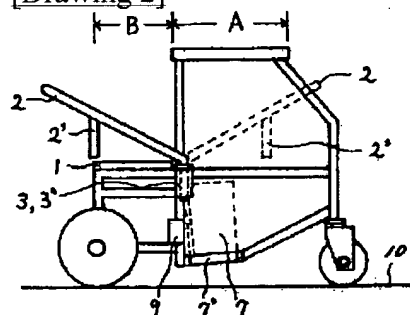
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## DRAWINGS

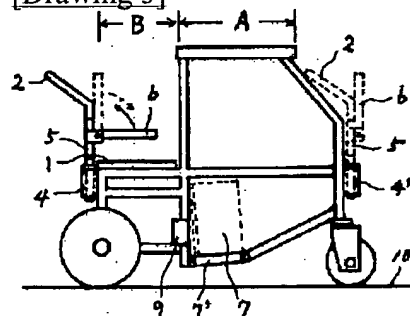
[Drawing 1]



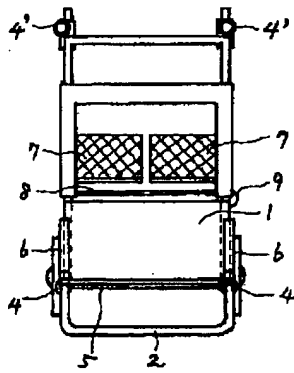
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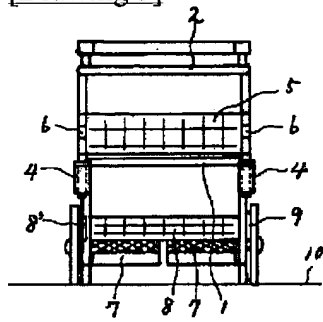
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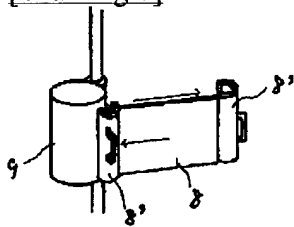
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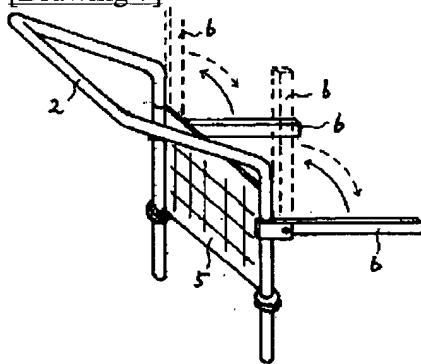
[Drawing 5]



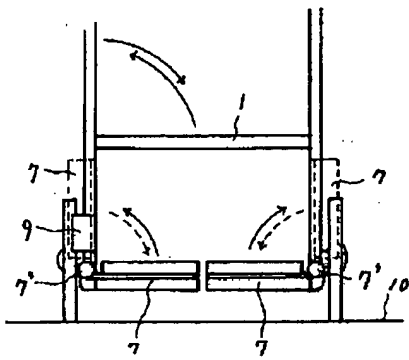
[Drawing 6]



[Drawing 7]



[Drawing 8]



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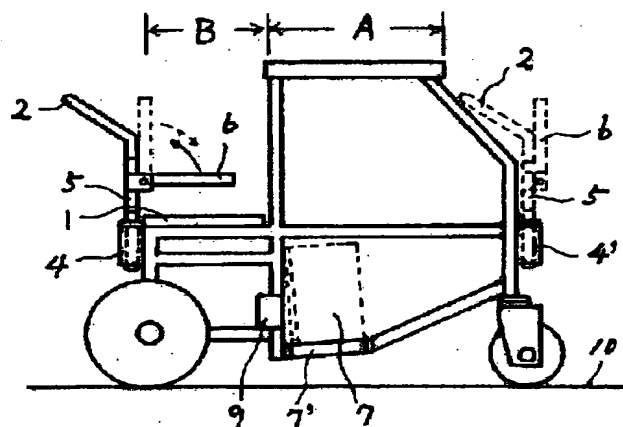
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(54)【発明の名称】 うしろに腰掛けを着脱自在に備える歩行補助車の 介助用手押し移送装置

## (57)【要約】

【目的】 うしろに腰掛けを着脱自在に備える歩行補助車の機能を損なうことなく、着座状態の被介助者を、該歩行補助車とも安全に手押し介助移送を可能にする。

【構成】 うしろに腰掛けを着脱自在に備える歩行補助車の機能を損なうことなく、着脱自在構造でかつ収納取付けを可能とし、着座状態の被介助者を該歩行補助車とも安全に手押し移送を行なうため、手押しバー2、肘掛部6、背もたれ部5等からなる手押し移送装置と、移送の際、被介助者の両足を若干高さで支える足置き板7及び足支え帯8と収納ケース9からなる足置き装置を備える。



## 【特許請求の範囲】

【請求項1】 うしろに腰掛けを着脱自在に備える歩行補助車を使用中で、その腰掛けに着座したままの被介助者を、介助者が該歩行補助車とも所定場所に安全に移送を行なうことのできる手押し移送手段において、うしろに腰掛けを着脱自在とする該歩行補助車本来の機能を損なうことなく着脱自在構造でかつ収納取付けを可能とし、被介助者に不安感を与えることなく、安全で容易に移送操作を行なうことができるように形状設定される手押し装置と、被介助者の両足を若干高さで支えるための足置き装置と、から成ることを特徴とするうしろに腰掛けを着脱自在に備える歩行補助車の介助用手押し移送装置。

【請求項2】 手押し装置に、該歩行補助車の左右フレーム間をまたぐU字形状の手押しバーを設けたことを特徴とする請求項1記載のうしろに腰掛けを着脱自在に備える歩行補助車の介助用手押し移送装置。

【請求項3】 手押し装置に、該歩行補助車の左右側に分離する棒状の手押しバーを設けたことを特徴とする請求項1記載のうしろに腰掛けを着脱自在に備える歩行補助車の介助用手押し移送装置。

【請求項4】 手押しバーを着脱自在可能とする取付け部を、該歩行補助車の歩行補助部の後部左右側に設けたことを特徴とする請求項1又は2、3記載のうしろに腰掛けを着脱自在に備える歩行補助車の介助用手押し移送装置。

【請求項5】 手押しバーを着脱自在可能とする取付け部を、該歩行補助車の腰掛け部の後部左右側に設けたことを特徴とする請求項1又は2、3記載のうしろに腰掛けを着脱自在に備える歩行補助車の介助用手押し移送装置。

【請求項6】 被介助者用の背もたれ部を、手押しバーに設けたことを特徴とする請求項1又は2、3記載のうしろに腰掛けを着脱自在に備える歩行補助車の介助用手押し移送装置。

【請求項7】 請求項6の背もたれ部が、該手押しバーに着脱自在構造であることを特徴とする請求項6記載のうしろに腰掛けを着脱自在に備える歩行補助車の介助用手押し移送装置。

【請求項8】 被介助者用の肘掛け部を、請求項5の取付け部に用いる手押しバーの左右に設けたことを特徴とする請求項1又は2、3記載のうしろに腰掛けを着脱自在に備える歩行補助車の介助用手押し移送装置。

【請求項9】 請求項8の肘掛け部が、折りたたみ自在構造に設けたことを特徴とする請求項8記載のうしろに腰掛けを着脱自在に備える歩行補助車の介助用手押し移送装置。

【請求項10】 足置き装置における足置き板を、左右に等分割し、該歩行補助車の機能を妨げることなく、歩行補助部の後部寄りの下部左右側にそれぞれ所定方向に

開閉自在構造で設けたことを特徴とする請求項1記載のうしろに腰掛けを着脱自在に備える歩行補助車の介助用手押し移送装置。

【請求項11】 足置き装置における足支え帯を、該歩行補助車の機能を妨げることなく、歩行補助部の後部寄りの下部左右間に、着脱自在構造で設けたことを特徴とする請求項1記載のうしろに腰掛けを着脱自在に備える歩行補助車の介助用手押し移送装置。

## 【発明の詳細な説明】

## 【0001】

【産業上の利用分野】 本発明は、うしろに腰掛けを着脱自在に備える歩行補助車で、利用者が歩行不能で着座状態にある該歩行補助車を、介助者が安全で容易に手押し移送を行なうことのできる、うしろに腰掛けを着脱自在に備える歩行補助車の介助用手押し移送装置に関するものである。

## 【0002】

【従来の技術】 歩行補助車のなかで、「うしろに腰掛けを着脱自在にできる歩行補助車（実用新案登録第3015897号）」は、前側部分に歩行補助部を、後側部分に腰掛けを随意着脱自在とする腰掛け部を構成したことで、歩行補助車の機能を損なうことなく、該歩行補助車内で利用者が身体の向きを変える必要もなく休憩用の腰掛けを随意着脱自在に装着し利用できる利点があることから、リハビリ用は勿論足腰の衰えた高齢者や障害による歩行弱者にとって、介添え人等の手を借りることも少なく、性別年齢を問わず自由に安心して利用できる安全で有効な歩行訓練及び歩行補助手段として広く実用に供されている。

【0003】 しかし、該歩行補助車には、疲れた場合における休憩用の腰掛けが着脱自在構造で備えられているものの、本来は歩行訓練及び歩行補助を主目的としたものであることから、移送用介助車としての所要機能は付加されておらず、例えば該歩行補助車の利用過程で体調を崩したり、又は歩行困難となり、着座姿勢のまま動けなくなってしまう場合は、該歩行補助車ども所定場所に安全移送を行なうという介助処置等の速やかな対応には、困難であるという問題点があった。

## 【0004】

【発明が解決しようとする課題】 解決しようとする問題点は、用いられる「うしろに腰掛けを着脱自在にできる歩行補助車」において、該歩行補助車内で着座状態にある被介助者をそのままの姿勢で、安全に該歩行補助車とも所定の場所に移送させることができないという点である。

## 【0005】

【課題を解決するための手段】 本発明は、「うしろに腰掛けを着脱自在にできる歩行補助車」において、着座状態の被介助者を該歩行補助車とも安全かつ容易に移送を可能とするため、うしろに腰掛けを着脱自在とする歩行

補助車本来の機能を損なうことなく、着脱自在構造でかつ収納取付けを可能とし、介助者が被介助者に不安感を与えることなく安全でかつ容易な移送操作を行なうことができるように形状設定される手押し装置と、移送する際の安全のため、被介助者の両足を若干高さで支えておくための足置き装置とを備えることを最も主要な特徴とする。

【0006】手押し装置における手押しバーを、該歩行補助車としての機能を妨げることなく、歩行補助車に常時携帯できるようにし、該手押しバーに被介助者用の背もたれ部及び肘掛部を設け、足置き装置に被介助者の足を足置き板上に安定させるための足支え帯を着脱自在構造で設けることで、介助車としての機能を付加し、着座状態の被介助者をそのままの姿勢で、該歩行補助車とともに安全にかつ速やかに所定場所に手押し移送を可能とするという目的を実現した。

#### 【0007】

【実施例】図1は本発明装置を使用しない「うしろに腰掛けを着脱自在に備える歩行補助車（実用新案登録第3015897号）」の実施例の側面図で、図2～8は本発明装置の実施例を示すそれぞれの説明図である。なお、本発明の主体は「うしろに腰掛けを着脱自在に備える歩行補助車」における介助用手押し移送装置等の実装方法にあるので、「うしろに腰掛けを着脱自在に備える歩行補助車」の機能構造系の説明は省略する。以下図面に基づき、本発明の実施例について詳細に説明する。

【0008】図2～8において、手押し装置における手押しバー2は、うしろに腰掛けを着脱自在に備える歩行補助車（以下歩行補助車と称する）の左右フレーム・パイプをまたぐU字形状に、又は左右側それぞれに分離した棒状で、それぞれ一方の端部側に歩行補助車の歩行補助部Aと腰掛け部Bの境の左右フレーム・パイプ部分に設けられる後述の取付け部3に又は腰掛け部Bの後部左右フレーム・パイプ部分に設けられる取付け部4に挿入装着可能とする若干長さ部分を構成し、被介助者が着座状態の該歩行補助車を後から安全に手押し移送が行なえるようにそれぞれ所定の形状を有し、かつ剛性のパイプ材で構成されている。なお、取付け部3に装着される手押しバー2においては、その左右間に後述の背もたれ部5を取り付けることのできるアーム2'が、該手押しバー2の左右側にそれぞれに一体構成され、更に、取付け部4に装着される手押しバー2の左右には、後述の肘掛部6が設けられている。

【0009】手押しバー2の端部を挿入装着する取付け部3は、腰掛け部Bの腰掛け板1と略同じ高さ位置付近で、歩行補助部Aと腰掛け部Bとの境の左右フレーム・パイプの外側に、該歩行補助車の機能を妨げることなく固定装置されている。そして、手押しバー2の一方の端部側の若干長さ部分を挿入自在構造とし、該歩行補助車における手押し移送機能に支障がないようにされるが、

棒状の手押しバー2の場合においては、該取付け部3が、棒状の手押しバー2において回動防止用で形成される挿入端部形状と組み合わせるように形状構成されることで、所定機能が維持されている。なお、これら取付け部3は、歩行補助車としての使用時諸条件において、歩行補助車の機能を損なうことなく、かつ進行方向周辺に危害を与える恐れもなく、該U字形状又は棒状の手押しバー2をそれぞれに逆向きで挿入装着可能とし、これら手押しバー2を常時携帯するための収納取付け部3'として、共同使用できるようになされている。

【0010】取付け部4は、腰掛け部Bの腰掛け板1の後の左右フレーム・パイプの後側に該歩行補助車の機能を妨げることなく固定装着されている。そして、手押しバー2の一方の端部側の若干長さ部分を挿入自在構造とし、該歩行補助車における手押し移送機能に支障がないようにされるが、棒状の手押しバー2の場合においては、該取付け部4が、棒状の手押しバー2において回動防止用で形成される挿入端部形状と組み合わせるように形状構成されることで、所定機能が維持されている。

【0011】なお、この取付け部4に用いられる手押しバー2を歩行補助車に常時携帯するための収納取付け部4'を、該歩行補助車の歩行補助部Aの前部の左右フレーム・パイプの前側に固定装着し、歩行補助車としての使用時諸条件において、歩行補助車の機能を損なうことなく、かつ進行方向周辺に危害を与える恐れもない状態で、該U字形状又は棒状の手押しバー2をそれぞれに逆向きで挿入装着可能になされている。

【0012】着座状態の被介助者の姿勢を安定して支えるための背もたれ部5は、取付け部3に用いられる手押しバー2の左右に設けられるアーム2'間を、取付け部4に用いられる手押しバー2の場合はその左右間で所定位置をそれぞれ連結する布状で所定幅を有する帯で構成し、介助移送諸条件における着座状態の被介助者をソフト感覚で、かつ安定して支えることができるようになされている。なお、該背もたれ部5は、手押しバー2のアーム2'部分及び左右間の所定取付け部分に脱落することなく着脱自在に構成されている。

【0013】肘掛部6は、取付け部4に用いられるU字形状又は棒状の手押しバー2の左右の所定位置にそれぞれ折りたたみ構造で一体構成され、介助移送時諸条件における着座状態の被介助者の肘部分を支えることで、安定した姿勢が保持できるようになされている。

【0014】足置き装置において、足置き板7を、左右に等分割の開閉自在構造で、利用時に該被介助者の両足を若干高さで支持できるようにするため、歩行補助部Aと腰掛け部Bとの境の左右フレーム・パイプで、床面10から所定高さのフレーム・パイプ下部先端から歩行補助部A前側方向にそれぞれ所定の角度で一体構成される若干長さの取付けパイプ7'を中心軸とし、一方の端部側を脱落することなく回動自在に取り付け、歩行補助車



の機能を妨げることなく、歩行補助部Aの左右側にそれぞれ直立状態で格納維持ができるようにするが、介助移送の際、着座状態の被介助者の両足を乗せることができるように、歩行補助部A内側方向のみに略90度の範囲で回動自在となされている。なお、左右の取付けパイプ7'の先端は、それぞれ歩行補助部Aの前側フレーム・パイプ部分に連結されることで剛性を高め、該介助移送時諸条件において支障がないようになされている。

【0015】足支え部において、足支え帯8を、布状の若干幅を有する帯状で構成し、一方の端部側を内部に固定して収納する収納ケース9内から出入自在構造とし、もう一方の外側端部に取付け用のフック部8'が設けられている。若干の巻き込み力を有し、足支え帯8を収納かつ引き出し自在構造で筒状の収納ケース9を、前述の足置き板7を装置する取付けパイプ7'を設けるフレーム・パイプの一方側の所定位置に、歩行補助車としての機能を妨げることなく固定装着し、引き出した足支え帯8のフック部8'を、もう一方側の足置き板7を装置する取付けパイプ7'を設けるフレーム・パイプ部分に掛けることができるようにしておく。その際、収納ケース9から引き出される足支え帯8が、左右フレーム・パイプの間隔寸法と略同じ長さを有し、該左右フレーム・パイプ間に若干強さの張りを構成して、被介助者の足置き板7上における下肢部分を支えることができるようになされている。

【0016】本発明は、上記実施例に限定されなければならない理由はなく、例えば、うしろに腰掛けを着脱自在に備える歩行補助車の介助用手押し移送装置において、歩行補助車としての機能を損なうことなく、該歩行補助車に着脱自在構造でかつ収納取付けを可能とする手押しバー2等の手押し装置や足置き板7等の足置き装置における所要の構成が、他の形状構成のものであっても、被介助者の介助手押し移送を安全に可能とする機能構成が、上記実施例における各条件を具備するものであれば良いということはいうまでもない。

#### 【0017】

【発明の効果】以上説明した本発明のうしろに腰掛けを着脱自在に備える歩行補助車の介助用手押し移送装置について、次に記載する効果を奏する。

【0018】請求項1のうしろに腰掛けを着脱自在に備える歩行補助車の介助用手押し移送装置において、歩行補助機能を損なうことなく、歩行補助車に手押し移送を行なうことのできる手押し装置と、足置き装置で構成される介助用手押し移送装置を設けたことは、該歩行補助車を利用過程において、体調を崩して動けなくなり、腰掛けに着座したままの被介助者を、直ちに介助者が該歩行補助車とも所定場所に安全に介助移送し、危険が回避できる適切な対応処置を容易に行なうことができるという、大きな利点がある。これにより、利用者の不安も解消され、リハビリ効果が促進されるという利点も大き

い。

【0019】請求項2の手押し装置に、U字形状の手押しバーを設けたことは、押送動作に操作性が良い。

【0020】請求項3の手押し装置に、左右に分離する棒状の手押しバーを設けたことは、押送動作に操作性が良いことに加え、この手押しバーを装置したままで、該歩行補助車を利用できるという利便性がある。

【0021】請求項4の手押しバーを着脱自在にできる歩行補助部の後部左右に設けられる取付け部は、該手押しバーの装着で腰掛け部の左右に枠を構成し、押送の際における被介助者の左右を支えることで、着座姿勢の安定保持に大いに役立つ。

【0022】請求項5の手押しバーを着脱自在にできる腰掛け部の後部左右に設けられる取付け部は、押送の際、手押しバーによる操作性に優れている。

【0023】請求項6の背もたれ部を手押しバーに設けたことは、介助移送の際における被介助者の背後を支えることで、着座姿勢安定維持に大いに役立つ。

【0024】請求項7の背もたれ部が、手押しバーに着脱自在構造としたことは、手押しバーの収納、携帯の際に大いに役立つ。

【0025】請求項8の被介助者用の左右の肘掛部を、請求項5の取付け部に用いる手押しバーに設けたことは、介助移送の際における被介助者の姿勢安定保持に大いに役立つ。

【0026】請求項9の肘掛部を折りたたみ構造としたことは、該手押しバーの収納、携帯の際に大いに役立つ。

【0027】請求項10の足置き装置における足置き板が、等分割され、左右の所定位置に開閉自在構造で設けられたことは、直ちに被介助者の足部を支えることを可能にして介助移送における安全を確保し、該機動性向上に大いに役立つ。

【0028】請求項11の足置き装置における足支え帯が、所定位置に着脱自在構造で設けられたことは、被介助者の下肢部分を支えることで足部の安定維持を可能にし、介助移送の際における安全を確保し、該機動性向上に大いに役立つ。

#### 【図面の簡単な説明】

【図1】本発明装置を使用しない従来の実施例で、「うしろに腰掛けを着脱自在に備える歩行補助車」の右側面図である。

【図2】本発明装置の実施例で、手押しバー2を着脱自在にできる取付け部3及び足置き装置が設けられた本発明装置実施例の使用状態を示す右側面図である。

【図3】本発明装置の実施例で、手押しバー2を着脱自在にできる取付け部4と収納取付け部4'及び足置き装置が設けられた本発明装置実施例の使用状態を示す右側面図である。

【図4】図3の平面図である。

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【図5】図3の背面図である。

【図6】本発明装置の実施例で、足置き装置における足  
支え帯8及び収納ケース9の構成を示す説明図である。

【図7】U形状の手押しバーに設けられる、肘掛部6  
及び背もたれ部5の構成を示す説明図である。

【図8】足置き装置における、足置き板7の使用時及び  
収納時の状態を示す説明図である。

【符号の説明】

A 歩行補助部

B 腰掛け部

1 腰掛け板

2 手押しバー

2' アーム

3、4 取付け部

3'、4' 収納取付け部

5 背もたれ部

6 肘掛部

7 足置き板

7' 取付けパイプ

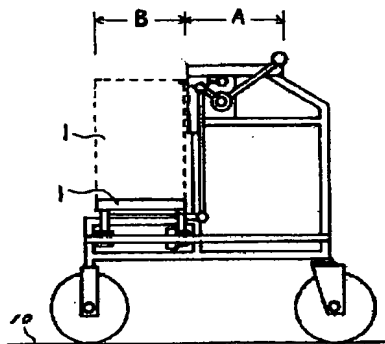
8 足支え帯

8' フック部

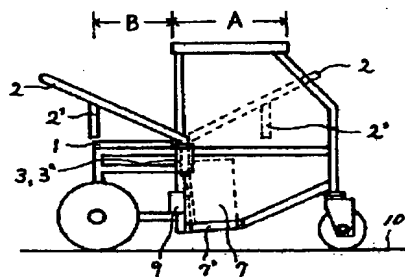
10 収納ケース

10 床面

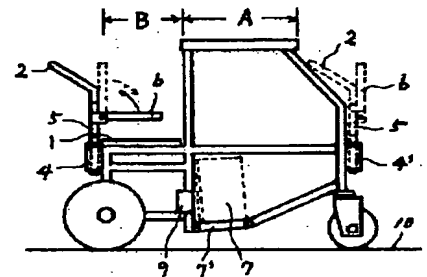
【図1】



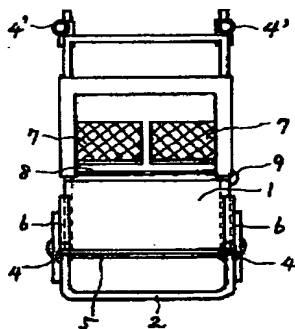
【図2】



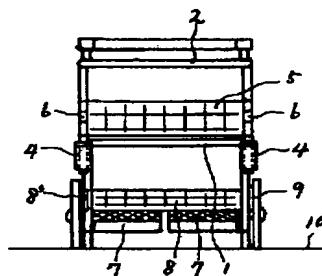
【図3】



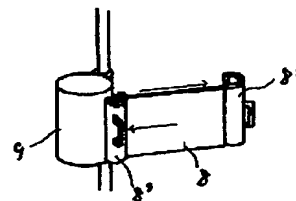
【図4】



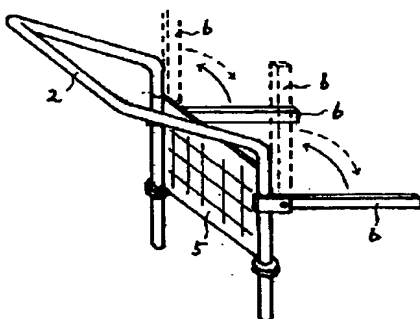
【図5】



【図6】



【図7】



【図8】

